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AS/NZS 2269.0:2012
(Incorporating Amendment No. 1)

AS/NZS 2269.0:2012

Australian/New Zealand Standard™

Plywood—Structural

Part 0: Specifications

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This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee TM-008, Plywood Timber Products. It was approved on behalf of the Council of Standards Australia on 2 October 2012 and on behalf of the Council of Standards New Zealand on 5 October 2012.
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The following are represented on Committee TM-008:

Australian Building Codes Board
Australian Timber Importers Federation
BRANZ
Building Products Innovation Council
Engineered Wood Products Association of Australasia
Engineers Australia
Scion
Timber Development Association (NSW)
Wood Processors Association

Additional Interests:

Mr Kevin Lyngcoln

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This Standard was issued in draft form for comment as DR AS/NZS 2269.0.

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee TM-008, Plywood Timber Products, to supersede AS/NZS 2269.0:2008.

This Standard incorporates Amendment No. 1 (August 2015). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

The objective of this Standard is to provide minimum performance requirements and specifications for the manufacture and application of structural plywood, acceptable to users, specifiers, manufacturers, and building authorities in Australia and New Zealand.

The objective of this revision is to align this Standard with the latest revision of AS 1720.1, *Timber structures*, Part 1: *Design methods* and AS/NZS 4063.2, *Characterization of structural timber*, Part 2: *Determination of characteristic values*.

Plywood manufactured to this Standard is suitable for use in permanent structures. The plywood may be of either hardwood or softwood veneers, or a combination of both. The quality of veneers is judged in the finished panel.

This edition includes the following changes:

(a) Amendments have been made to characteristic properties listed in Table 4.1.

(b) Two new F-grades, i.e., F4 and F5, have been included to reflect the ongoing changes in resource.

(c) Amendments have been made to the formaldehyde emission classes with the removal of emission classes E_2 and E_3 and the inclusion of a new lower 'Super E_0' emission class. This is to reflect marketplace expectations for lower formaldehyde emissions for structural plywood.

This Standard is Part 0 of the AS/NZS 2269 series, *Plywood—Structural*, which comprises the following parts:

AS/NZS
2269 Plywood—Structural
2269.0 Part 0: Specifications (this Standard)
2269.1 Part 1: Determination of structural properties—Test methods
2269.2 Part 2: Determination of structural properties—Evaluation methods

Five standard veneer qualities, A, S, B, C and D, are prescribed, as follows:

A—a high quality appearance grade, suitable for clear finishing.

S—an appearance grade, which permits characteristics as a decorative feature.

B—an appearance grade suitable for high quality paint finishing.

C—a non-appearance grade with a solid surface.

D—a non-appearance grade with permitted open characteristics.

The surface grade of the plywood is determined by the quality of the face and back veneers.

Two methods for determining the stress grade for the plywood are described using the following bases:

(i) Mechanical F-grading of plywood panels.

(ii) In-grade testing of plywood panels.

Three formaldehyde emission classes, Super E_0, E_0, E_1, are included.

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For the design of structures or elements incorporating the use of plywood specified in this Standard, the structural grades will have characteristic strength and stiffness values as detailed in Table 4.1. These characteristic properties are to be assigned in accordance with the requirements of AS 1720.1, *Timber structures*, Part 1: *Design methods*, and NZS 3603, *Timber Structures Standard*.

This Standard covers the basic structural plywood product. Particular end uses may require additional processing, preservative treatment or surface finishing. Structural plywood that is exposed for a long term to wet or damp conditions or full weather exposure will need preservative treatment in accordance with AS/NZS1604.3, *Specification for preservative treatment*, Part 3: *Plywood*. Under these exposure conditions, the surface of the plywood will need adequate protection.

Notes to the text contain information and guidance. They are not an integral part of the Standard.

Statements expressed in mandatory terms in notes to figures are deemed to be requirements of this Standard.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is only for information and guidance.

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